

ICS 103
Sample Quiz 2

Question 1: (4 points)

Write the results of the expressions shown below:

Expression	Result
<code>!0 && 1 0</code>	
<code>100 + 3 > 5 * 2</code>	
<code>10 > 5 > 2</code>	
<code>!(100/20 == 20/4)</code>	

Question 2: (7 points)

Determine the output of the following programs for each of the input values entered by the user. If no output is displayed, write "No Output"

I)

```
#include <stdio.h>
int main(void)
{
    int x,y;
    printf("Enter the values of x and y\n");
    scanf ("%d%d", &x, &y);
    if (x==8)
    if (y=5)
    printf("A ");
    else
    printf("B ");
    printf("C ");
    printf("D ");
    return 0;
}
```

User Input	Program Output
5 8	
7 5	
8 1	

II)

```
#include <stdio.h>
int main(void)
{
    int x,y;
    printf("Enter the values of x and y\n");
    scanf ("%d%d", &x, &y);
    if( !(x<5) || !(y>=7) )
    printf("A ");
    if( y==7 )
    printf("B \n");
    else if( x=5 )
    printf("C\n");
    return 0;
}
```

User Input	Program Output
5 7	
3 7	
3 6	
3 8	

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Question 3: (4 points)

Consider the following program. What will be the output for the different values of x typed by the user?

```
#include <stdio.h>
int main() {
int x;
scanf("%d",&x);
switch(x) {
    case 3:
    case 6: if (x==6)
            x=x-5;
            x=x+11;
    case 1:
    case 0: x=x+2;
    case 4: break;
    case 2: x=x+5;
            break;
    default : x=x-9;
}
printf("%d\n",x);
return 0;}
```

Value of x typed by user	Program output
3	
6	
5	
4	